

REMARKS

By this amendment, claims 1-9 have been amended and claims 13-23 have been added. No claim has been cancelled and claims 10-12 have been previously withdrawn. Accordingly, claims 1-9 and 13-23 are currently pending in the application, of which claims 1, 6, 13 and 21 are independent claims. Applicant appreciates the indication that claims 3-5 and 9 contain allowable subject matter

In view of the above amendments and the following Remarks, Applicant respectfully requests reconsideration and timely withdrawal of the pending objections and rejections for the reasons discussed below.

Rejections Under 35 U.S.C. §112, second paragraph

Claim 1 stands rejected under 35 U.S.C. §112, second paragraph as being indefinite. Applicants respectfully traverse this rejection for at least the following reasons.

In this response, claim 1 has been amended to correct the informalities pointed out by the Examiner. Accordingly, Applicant respectfully requests withdrawal of the 35 U.S.C. §112, second paragraph rejection of claim 1.

Rejections Under 35 U.S.C. §102

Claim 1 stands rejected under 35 U.S.C. §102(e) as being anticipated by U. S. Patent No. 6,198,516 issued to Kim, *et al.* ("Kim"). Applicant respectfully traverses this rejection for at least the following reasons.

Amended claim 1 recites:

“1. A liquid crystal display (LCD), comprising:
a plurality of first wires formed on a substrate and
extending in a first direction;
a plurality of second wires intersecting and insulated from
the first wires and extending in a second direction, wherein *each of two neighboring second wires has a bent portion which increases or decreases a gap between the two neighboring second wires*; and
a plurality of pixel electrodes formed in pixel regions
defined by the first wires and the second wires, each having a
shape conformal to the bent portion of the second wires and
comprising a wide portion and a narrow portion.”

In this regard, Kim fails to disclose or suggest “each of two neighboring second wires has a bent portion which increases or decreases a gap between the two neighboring second wires”.

Kim discloses two neighboring data lines 14a and 14b in FIG. 3, but fails to disclose each of data lines 14a and 14b having a bent portion that increases or decreases a gap between the data lines 14a and 14b. Thus, it is submitted that claim 1 is patentable over Kim.

Accordingly, Applicant respectfully requests withdrawal of the 35 U.S.C. §102(e) rejection of claims 1.

Rejections Under 35 U.S.C. §103

Claims 6 and 7 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Kim. Applicant respectfully traverses this rejection for at least the following reasons.

Amended claim 6 recites “a plurality of data lines formed on the gate insulating layer and intersecting the gate lines and the storage capacitance lines, *each of two neighboring data lines having a bent portion which increases or decreases a gap between the two neighboring data lines*”. As previously mentioned, Kim fails to this claimed feature. No secondary reference has been introduced to cure the deficiency from Kim. Thus, it is submitted that claim 6 is patentable

over Kim. Claim 7 that is dependent from claim 6 would be also patentable at least for the same reason.

Accordingly, Applicant respectfully requests withdrawal of the 35 U.S.C. §103(a) rejection of claims 6 and 7.

In the Office Action, claims 2 and 8 stand rejected under 35 U.S.C. §103(a) over Kim in view of U. S. Patent No. 6,266,118 to Lee, et al. (“Lee”). This rejection is respectfully traversed.

Claims 2 and 8 are dependent from claims 1 and 6, respectively. As previously mentioned, claims 1 and 8 are believed to be patentable over Kim. For example, Kim fails to disclose or suggest “each of two neighboring data lines having a bent portion which increases or decreases a gap between the two neighboring data lines”, as claimed.

In this regard, FIG. 4 of Lee shows a pixel region 100 having a first space A1 and a second space A2, but does not disclose or suggest “each of two neighboring data lines having a bent portion which increases or decreases a gap between the two neighboring data lines”, as claimed, thereby failing to cure the deficiency from Kim. Thus, it is submitted that claims 1 and 6 are patentable over Kim and Lee. Claims 2 and 8 that are dependent from claims 1 and 6, respectively, would be also patentable at least for the same reason.

Accordingly, Applicant respectfully requests withdrawal of the 35 U.S.C. §103(a) rejection of 2 and 8.

Double Patenting

In the Office Action, claims 1, 2 and 6 stand provisionally rejected under a non-statutory double patenting rejection over claims 4 and 5 U. S. Patent Application No. 10/217,977 and claim 6 of U. S. Patent Application No. 10/036,305. This rejection is respectfully traversed.

In this response, Applicant submits a terminal disclaimer attached hereafter to traverse this provisional double patenting rejection. Accordingly, Applicant respectfully requests withdrawal of the double patenting rejection of claims 1, 2 and 6.

Added Claims

In this response, claims 13-23 have been added, of which claims 13 and 21 are independent, to cover the claimed invention from different perspective. Claim 13 recites “a plurality of data lines intersecting the gate lines, wherein each gate line has a plurality of bent points arranged periodically”. An example of this claimed feature is shown in FIG. 1 of the present application, in which the data line 130 has two bent points that are periodically arranged. The first bent point (the upper one) bends the data line 130 to extend one direction and the second bent point (the lower one) bends the data line to extend another direction which is perpendicular to the direction in which the gate line 114 is extended. In this regard, both Kim and Lee disclose a plurality of data lines that are straight and extending in only one direction. None of the cited references discloses or suggests a data line has plurality of bent points. Thus, it is submitted that claims 13-23 are patentable over Kim and Lee.

CONCLUSION

Applicant believes that a full and complete response has been made to the pending Office Action and respectfully submit that all of the stated objections and grounds for rejection have been overcome or rendered moot. Accordingly, Applicant respectfully submits that all pending claims are allowable and that the application is in condition for allowance.

Should the Examiner feel that there are any issues outstanding after consideration of this response, the Examiner is invited to contact the Applicant's undersigned representative at the number below to expedite prosecution.

Prompt and favorable consideration of this Reply is respectfully requested.

Respectfully submitted,



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